



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/733,446	12/12/2003	Masaaki Yamanaka	244586US0CONT	2331
22850	7590	11/18/2004		
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314				

EXAMINER
----------

KRUEER, KEVIN R

ART UNIT	PAPER NUMBER
----------	--------------

1773

DATE MAILED: 11/18/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

### Application No.

10/733,446

### Applicant(s)

YAMANAKA ET AL. *PA*

### Examiner

Kevin R Kruer

### Art Unit

1773

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-16 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 12/12/03.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_.

**DETAILED ACTION**

***Priority***

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

***Information Disclosure Statement***

2. The information disclosure statement filed 12/12/2003 has been fully considered. A signed copy of said 1449 is enclosed herein.

***Specification***

3. The abstract of the disclosure is objected to because it is more than one paragraph. Correction is required. See MPEP § 608.01(b).

***Claim Rejections - 35 USC § 112***

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claim 16 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The claim refers to the core (layer (i)) as a surface layer. For purposes of examination, the claim will be read to read on a laminate wherein the core comprises 50-80% of the total thickness.

***Claim Rejections - 35 USC § 103***

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 1-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tanaka (US 6,686,055) in view of Touhsaent (US 6,013,353) and EP0613919 (herein referred to as Ueda).

Tanaka teaches a polypropylene composite film comprising a crystalline polypropylene layer, and a propylene-1-butene random copolymer layer that is laminated on a least one surface of the crystalline polypropylene layer. The random copolymer comprises 50-95wt% of constituents derived from propylene, and may contain constituent units derived from olefins other than propylene and 1-butene in small amounts (col 5, lines 14+) and catalyzed with a metallocene catalyst (col 7, lines 15+). Said polymer preferably has a melting point of 80-130C (col 5, lines 50+) and a crystallinity in the range of 15-65% (col 6, lines 63+). The examiner takes the position that the random copolymer with said crystallinity meets the "extraction amount" limitation of claim 4 since extraction amount is a measure of a polymer's crystallinity. The random copolymer may further comprise an antistatic agent (col 19, lines 64+). The crystalline polypropylene is a homopolymer or a random copolymer containing small amounts (less than 5mol%) of other olefins such as ethylene, 1-butene, etc (col 4, lines 50+) and preferably has a melt index of 0.1-10 (col 4, lines 45+). Said laminate is monoaxially stretched (col 20, lines 11+) and is used for high speed packaging such as fill packaging (Herein understood to read on claimed "blister package" of claim 8. The core has a thickness of 5-200um and the random copolymer layers have thickness of 0.1-50um (col 21, lines 4+).

Tanaka does not teach that said film should comprise an inorganic filler. However, Touhsaent teaches an oriented multi-layer film comprising a core layer and two skin layers (abstract). Touhsaent teaches that an opaque film may be obtained by adding cavitating agents such as PET, nylon, metal, or ceramic particles to the core prior to orientation (col 2, lines 46+). Suitable amounts of cavitating agents is usually less than 20wt% (col 2, lines 46+) and said particles have a size of 0.1-10um. . Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to add 1-20wt% of an inorganic filler to the core layer of the laminate taught in Tanaka. The motivation for doing so would have been to obtain an opaque film.


Tanaka also does not teach the amount of antistatic agent claimed in claim 1 or the claimed antistatic agent of claim 6. However, Ueda teaches an antistatic agent that reads on the claimed antistatic agent. Said antistatic agent may be utilized in polypropylene compositions (page 9, lines 34-42), and comprises a polyetheresteramide antistatic agent, a polyamide resin, and a compatilizer. Said antistatic agent is utilized in amounts of 5-45wt% based upon the composition. Said antistatic agent is compatible with polypropylene, heat resistant, maintains antistatic properties permanently (abstract) and does not rinse away in the presence of water. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize the antistatic agent taught in Ueda as the antistatic agent in the surface layers of the laminate taught by Tanaka. The motivation for doing so would have been that said antistatic agent is compatible with polypropylene, heat resistant, maintains antistatic properties permanently (abstract) and does not rinse away in the presence of water.

*Conclusion*

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin R Kruer whose telephone number is 571-272-1510. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Jones can be reached on 571-272-1535. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Kevin R. Kruer  
Patent Examiner-Art Unit 1773